

# Assignment 4 Vortex induced drag analysis of a wing

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## Requirements

- Personal or group task: personal
- Minimum/Maximum number of pages: 10 / 15 (excluding Title page)
- Font size: 10 – 12

## Background

Examining aircraft performance enhancement, it is interesting to explore the optimization possibilities for the aerodynamics and associated structural loading of wings with non-planar configurations. Since Whitcomb's early work, winglets have been employed for decades to enhance the aerodynamic efficiency of aircraft. For a detailed understanding of the aerodynamic principles governing winglets, refer to [1]. In essence, a winglet generates a force, primarily forward due to the normalwash created by the circulation over the wing tip. This forward force acts as thrust, mitigating the induced drag of the aircraft, which constitutes approximately 40% of total drag during cruise and 80–90% during the second climb segment. While adding a winglet may seem appealing for aerodynamic performance, it has implications for the structural weight of the wing.

Consequently, a purely aerodynamic optimization might yield a winglet with an undesirable weight penalty. This additional weight could counteract the positive effects of drag reduction. Thus, designing a non-planar wing involves a complex multidisciplinary optimization process. In this assignment we only concentrate on the aerodynamics of non-planar wings and winglets. The structural aspects, that would change the optimum layout is left to other courses.

# Vortex Assignment

**Katrin Zwirgmaier**



## **Vortex Assignment:**

**The Vortex Assignment** Alfred Handley,1981-01-01 **Army Research Task Summary** United States. Army Research Office,1961 *Army Research Task Summary* ,1961 *Wind Turbines* Erich Hau,Sönke Siegfriedsen,2025-05-12 Wind Turbines addresses all those professionally involved in research development manufacture and operation of wind turbines It provides a cross disciplinary overview of modern wind turbine technology and an orientation in the associated technical economic and environmental fields It is based on the author s experience gained over decades designing wind energy converters with a major industrial manufacturer and more recently in technical consulting and in the planning of large wind park installations with special attention to economics For this 4th edition new sections on innovative concepts were added such as flying wind power plants and those connected to large buildings The recent technological progress in energy storage systems and electrical grid integration floating foundations and other offshore applications is documented Moreover patents and intellectual property protection are discussed in the commercial part **Army Research Task Summary: Engineering sciences and earth sciences** United States. Army Research Office,1961 **Army Research Office, Fiscal Year 1961, Army Research Task Summary** United States Department of the Army,1961 **Hunyady V. General Motors Corporation** ,1936 *Proceedings of the London Mathematical Society* ,1896 *Vortex Methods* Georges-Henri Cottet,G.-H. (Georges-Henri) Cottet,Petros D. Koumoutsakos,Professor Petros D Koumoutsakos,2000-03-13 This book presents and analyses vortex methods as a tool for the direct numerical simulation of incompressible viscous flows *Supporting Research and Advanced Development* ,1965 *AIAA Journal* American Institute of Aeronautics and Astronautics,2006 *Index of patents* ,1928 *The Encyclopaedia Britannica* Thomas Spencer Baynes,1875 **The Encyclopaedia Britannica** Day Otis Kellogg,Thomas Spencer Baynes,William Robertson Smith,1902 *U.S. Tax Cases* Commerce Clearing House,1937 1935 42 decisions originally reported currently in the Standard federal tax service and 1941 42 also in the Federal estate and gift tax service and 19 in the Federal excise tax reports **The Federal Reporter** ,1898 Includes cases argued and determined in the District Courts of the United States and Mar May 1880 Oct Nov 1912 the Circuit Courts of the United States Sept Dec 1891 Sept Nov 1924 the Circuit Courts of Appeals of the United States Aug Oct 1911 Jan Feb 1914 the Commerce Court of the United States Sept Oct 1919 Sept Nov 1924 the Court of Appeals of the District of Columbia *Encyclopaedia Britannica* ,1891 *The Encyclopædia Britannica: A-ZYM* Day Otis Kellogg,Thomas Spencer Baynes,1903 **The Encyclopaedia Britannica ...** ,1898 *The Encyclopædia Britannica* ,1893

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